

~~ADMINISTRATIVE-INTERNAL USE ONLY~~

DATA CENTER OPERATIONS BRANCH

NDS OPERATIONS PROCEDURE MANUAL  
NO. P-C013

SYSTEMS SW & HW  
13 April 1983

CSP TRANSFER SWITCH PROCEDURE

SYMBOLIC TITLE: N/A  
ORIGINATOR:

STAT

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A-0013

DATA CENTER OPERATIONS BRANCH

DCOB PROCEDURE  
No. PD-A-0006/83

OPERATIONS  
31 January 1983

C/SP TRANSFER SWITCH PROCEDURES

PURPOSE:

The purpose of this document will provide the operators with a quick reference for changing the transfer switches associated with the C/SP's. It will enable them to know what transfer switches are involved and what position they should be in depending upon the desired computer system configuration.

REFERENCES:

For a more detailed explanation of the operation of the transfer switches refer to DCOB Procedure No. 1 - 6.

PROCESSING:

See attachments.

ATTACHMENTS:

C/SP configurations for 1100/84 and 1100/81 quick reference chart.

Distribution: D

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## SUBSTITUTING SPARE CSP FOR FAILING C/SP ON OPERATIONAL SYSTEM

When reconfiguring CSP's on the U1100/84 from one IOU to another you must take into consideration the impact of the transfer switches on the system. The following steps must be followed to avoid system errors that occur on the U1100/84 Operational and Development System.

1. HALT & CLEAR FAILING C/SP
2. DOWN FAILING C/SP (Ex. DN CSP1)
3. DOWN PATH TO FAILING C/SP (Ex. DN IOCM1/CSP1/14)
4. HALT & CLEAR SPARE C/SP
5. SWITCH NUMBERED T-BAR CORRESPONDING TO FAILING C/SP
6. SET TRANSFER SWITCHES ACCORDING TO DOCUMENTED C/SP PROCEDURES.
7. UP PATH DOWNED (3 ABOVE)
8. UP C/SP (2-ABOVE)
9. MANUALLY IPL SPARE C/SP

## OPERATIONAL SYSTEM

## PROCESSING:

C/SP 1 - Normal Operation (C/SP 1 to IOU 1)

C/SP XFER Switch #	POSITION (Color)	C/SP STATUS
14	UP	C/SP 1 to SW # 26
26	DN	C/SP 1 to IOU 1

C/SP 2 - Normal Operation (C/SP 2 to IOU 2)

29	DN	C/SP 2 to SW # 12
12	UP	C/SP 2 to IOU 2

C/SP 3 - Normal Operation (C/SP 3 to IOU 3)

15	UP	C/SP 3 to SW # 28
28	UP	C/SP 3 to IOU 3

Spare C/SP

40	UP (Green)	Spare to CSP1 XFER switch
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Development C/SP - Normal Operation

36	DN (White)	DEV C/SP to 1100/81 10
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## 1100/84 C/SP XFER SWITCHES

C/SP	to	IOU	XFER SW #'s	POSITION
#1		0	14 11	DN DN
#1		1	14 26	UP DN
#1		2	14 11	DN UP
#1		3	14 26	UP UP
#2		0	29 12	DN DN
#2		1	29 27	UP DN
#2		2	29 12	DN UP
#2		3	29 27	UP UP
#3		0	15 13	DN DN
#3		1	15 28	UP DN
#3		2	15 13	DN UP
#3		3	15 28	UP UP

SPARE C/SP FOR C/SP	to	IOU	SWITCH #	POSITION
#1		0	40 14 11	UP (Green) UP DN
#1		1	40 14 26	UP (Green) DN DN
#1		2	40 14 11	UP (Green) UP UP
#1		3	40 14 11	UP (Green) DN UP
#2		0	40 30 29 12	DN (White) DN (White) UP DN
#2		1	40 30 29 27	DN (White) DN (White) DN DN
#2		2	40 30 29 12	DN (White) DN (White) UP UP
#2		3	40 30 29 27	DN (White) DN (White) DN UP
#3		0	40 30 15 13	DN (White) UP (Green) UP DN
#3		1	40 30 15 28	DN (White) UP (Green) DN DN

SPARE C/SP FOR C/SP	to	IOU	SWITCH #	POSITION
#3		2	40	DN (White)
			30	UP (Green)
			15	UP
			13	UP
#3		3	40	DN (White)
			30	UP (Green)
			15	DN
			28	UP

DEV CSP FOR C/SP	to	IOU	SWITCH #	POSITION
#1		Ø	36 4Ø 14 11	UP (Green) DN (White) UP DN
#1		1	36 4Ø 14 26	UP (Green) DN (White) DN DN
#1		2	36 4Ø 14 11	UP (Green) DN (White) UP UP
#1		3	36 4Ø 14 26	UP (Green) DN (White) DN UP
#2		Ø	36 4Ø 3Ø 29 12	UP (Green) UP (Green) DN (White) UP DN
#2		1	36 4Ø 3Ø 29 27	UP (Green) UP (Green) DN (White) DN DN
#2		2	36 4Ø 3Ø 29 12	UP (Green) UP (Green) DN (White) UP UP
#2		3	36 4Ø 3Ø 29 27	UP (Green) UP (Green) DN (White) DN UP
#3		Ø	36 4Ø 3Ø 15 13	UP (Green) UP (Green) UP (Green) UP DN



DEV CSP FOR C/SP	to	IOU	SWITCH #	POSITION
#3		1	36	UP (Green)
			40	UP (Green)
			30	UP (Green)
			15	DN
			28	DN
#3		2	36	UP (Green)
			40	UP (Green)
			30	UP (Green)
			15	UP
			13	UP
#3		3	36	UP (Green)
			40	UP (Green)
			30	UP (Green)
			15	DN
			28	UP

Special considerations when using spare and/or DEV C/SP's:

If spare C/SP is being used as C/SP 1 then the DEV C/SP can be used only as either C/SP 2 or C/SP 3 or vice versa.

SWITCHES USE														QUICK REFERENCE CHART														
(Always set switches from left to right)																												
1100/84														1100/84														
C/SP to	IOU	11	12	13	14	15	26	27	28	29	30	36	40	C/SP to	IOU	11	12	13	14	15	26	27	28	29	30	36	40	
1	0	D			D									D1	0	D			U								U	D
1	1				U		D							D1	1				D		D						U	D
1	2	U			D									D1	2	U			U								U	D
1	3				U		U							D1	3				D		U						U	D
2	0		D										D	D2	0		D										U	U
2	1							D					U	D2	1							D			D	D	U	U
2	2		U										D	D2	2		U								U	D	U	U
2	3							U					U	D2	3							U			D	D	U	U
3	0			D		D								D3	0				D		U					U	U	U
3	1					U			D					D3	1								D			U	U	U
3	2			U		D								D3	2				U		U					U	U	U
3	3					U			U					D3	3					D			U			U	U	U
S-1	0	D			U								U	DEV to 1100/81 C/SP IOU D/CS/P 0														
S-1	1				D								U															
S-1	2	U			U								U															
S-1	3				D		U						U															
S-2	0		D										D													U	D	D
S-2	1							D					D													U	D	D
S-2	2		U										U													U	D	D
S-2	3							U					D													U	D	D
S-3	0			D		U							U													U	D	D
S-3	1					D			D				U													U	D	D
S-3	2			U		U							U													U	D	D
S-3	3					D			U				U													U	D	D

NOTE SWITCHES # 30, 36 & 40 WILL BE.

U = GREEN  
D = WHITE

U = UP  
D = DOWN

S-1 = Spare being used as C/SP # 1  
S-2 = Spare being used as C/SP # 2  
S-3 = Spare being used as C/SP # 3  
D1 = DEV C/SP being used as C/SP # 1  
D2 = DEV C/SP being used as C/SP # 2  
D3 = DEV C/SP being used as C/SP # 3